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Lance {US/US}: 934 Caswell Court, Katy, TX 77450
(US).

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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PI, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SI, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
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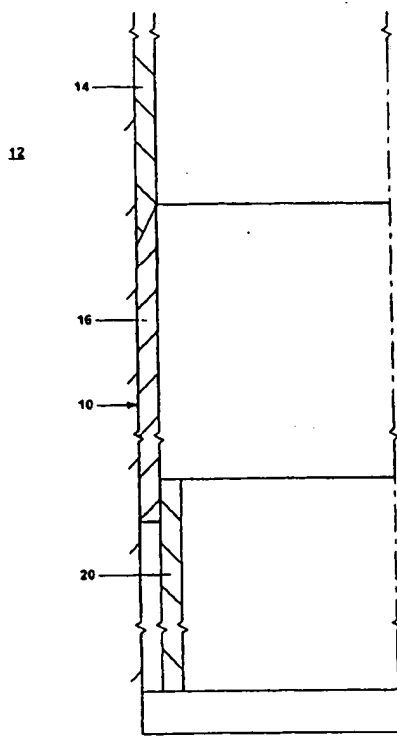
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(84) Designated States (*regional*): ARIPO patent (GH, GM,
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Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

(72) Inventor; and
(75) Inventor/Applicant (*for US only*): **COOK, Robert**,

[Continued on next page]

(54) Title: **METHOD OF FORMING A MONO DIAMETER WELLBORE CASING**



(57) Abstract: A method of forming a wellbore casing that includes positioning a first wellbore casing (14) within and coupling to a borehole (10), positioning a second wellbore casing (16) within the borehole that overlaps with and is coupled to the first wellbore casing (14), positioning a tubular liner (18) within the borehole that overlaps with and is coupled to at least a portion of the second wellbore casing (16), extending the length of the borehole (10), decoupling the liner (18) from the second casing (16) and removing the liner from the borehole, and positioning a third wellbore casing (20) within the borehole that overlaps with and is coupled to the second wellbore casing (16).

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Date of publication of the amended claims: 25 November 2004

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

- with international search report
- with amended claims

AMENDED CLAIMS

[received by the International Bureau on 20 July 2004 (20.07.04);
claims 21 to 30 added]

21. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:
- positioning a tubular liner within the borehole;
 - extending the length of the borehole;
 - removing the tubular liner from the borehole;
 - positioning a wellbore casing within the borehole; and
 - coupling the wellbore casing to the borehole.
22. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:
- positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;
 - positioning a tubular liner within the borehole that overlaps with and is coupled to at least a portion of the first wellbore casing;
 - extending the length of the borehole;
 - decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and
 - positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.
23. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:
- means for positioning a tubular liner within the borehole;
 - means for extending the length of the borehole;
 - means for removing the tubular liner from the borehole;
 - means for positioning a wellbore casing within the borehole; and
 - means for coupling the wellbore casing to the borehole.
24. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:
- means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;
 - means for positioning a tubular liner within the borehole that overlaps with and is coupled to at least a portion of the first wellbore casing;
 - means for extending the length of the borehole;

means for decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

25. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing;

preventing the second wellbore casing from collapsing;

extending the length of the borehole; and

positioning a third wellbore casing within the borehole that overlaps with and is coupled to the second wellbore casing.

26. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

preventing the borehole from collapsing;

extending the length of the borehole;

positioning a wellbore casing within the borehole; and

coupling the wellbore casing to the borehole;

27. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

preventing the first wellbore casing from collapsing;

extending the length of the borehole; and

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

28. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing;
means for preventing the second wellbore casing from collapsing;
means for extending the length of the borehole; and
means for positioning a third wellbore casing within the borehole that overlaps with and is coupled to the second wellbore casing.

29. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for preventing the borehole from collapsing;
means for extending the length of the borehole;
means for positioning a wellbore casing within the borehole; and
means for coupling the wellbore casing to the borehole.

30. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;
means for preventing the first wellbore casing from collapsing;
means for extending the length of the borehole; and
means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
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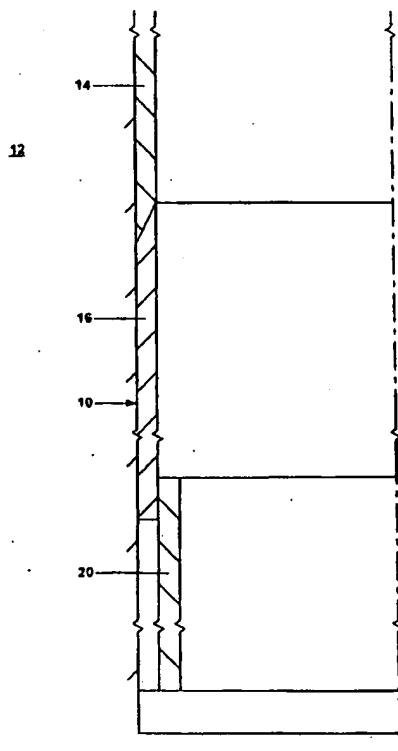
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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

(72) Inventor; and

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(57) Abstract: A method of forming a wellbore casing that includes po-
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length of the borehole (10), decoupling the liner (18) from the second cas-
ing (16) and removing the liner from the borehole, and positioning a third
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to the second wellbore casing (16).

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— with international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20870

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 7/20, 19/16, 43/10
US CL : 175/171; 166/380, 207, 208

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 175/171; 166/380, 207, 208, 206, 216, 217, 277

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST: wellbore, casing, coupling, liner, decoupling, expanding, mono diameter

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 1,880,218 A (SIMMONS) 1 October 1930 (01.10.1930), Figures 3 and 4.	1, 3, 4, 6, 7, 11, 13, 14, 16, 17, 19, 20
A	US 6,543,552 B1 (METCALFE et al) 8 April 2003 (08.04.2003), Figures 1-5.	1, 2, 11, 12
A	US 4,483,399 A (COLGATE) 20 November 1984 (20.11.1984), Figure 2.	1, 11
A	US 6,598,678 B1 (SIMPSON et al) 29 July 2003 (29.07.2003), Figures 13 and 14.	1, 2, 11, 12
A	US 6,550,539 B2 (MAGUIRE et al) 22 April 2003 (22.04.2003), Figures 4a-4f.	1, 2, 11, 12
A	US 6,070,671 A (CUMMING et al) 6 June 2000 (06.06.2000), Figures 1-4.	3, 4, 6, 7, 9, 10, 13, 14, 16, 17, 19, 20

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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Name and mailing address of the ISA/US

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